U. S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS WASHINGTON 25, D. C. (July 23, 1948)

Letter Circular LC 909 (Supersedes LC 824)

STRUCTURAL CLAY PRODUCTS, STONE, AND MASONRY

Publications by Members of the Staff of the National Bureau of Standards, together with a list of Federal Specifications.

	CONTENTS	Page
Part I	-Scientific Papers (S)	2
Part II	-Technologic Papers (T)	3
Part III	-Research Papers (RP)	5
Part IV	-Circulars (C)	
Part V	-Letter Circulars (LC) : : :	9
Part VI	-Building and Housing Publications (BH)	10
Part VII	-Building Materials and Structures (BMS)	10
Part VIII	-Miscellaneous Publications (M)	13
Part IX	-Simplified Practice Recommendations (R)	14
Part X	-Federal Specifications (FS)	15
Part XI	-Outside Publications	16

GENERAL INFORMATION

Some of the publications in this list have appeared in the regular series of publications of the Bureau and others in various scientific and technical journals. Unless specifically stated, papers are not obtainable from the National Bureau of Standards.

Where the price is stated, the publication may be purchased from the Superintendent of Documents by remitting either coupons obtainable from him in sets of 20 for \$1.00 and good until used, or check or money order made payable to the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Letter Circulars are obtainable, without charge, from the Bureau.

Publications marked "OP" are out of print, but, in general, may be consulted at technical libraries.

For papers in other scientific or technical journals, the name of the journal or of the organization publishing the article

is given in abbreviated form with the volume number (underscored), page, and year of publication, in the order named.

Serial letters are used to designate the several series of Bureau publications:

- S = "Scientific Paper." Sl to S329 are "Reprints" from the "Bulletin of the Bureau of Standards." S330 to S572 were published as "Scientific Papers of the Bureau of Standards." This series was superseded by the "Bureau of Standards Journal of Research" in 1928.
- I = "Technologic Paper." The To T370. This series was superseded by the "Bureau of Standards Journal of Research" in 1928.
- RP = "Research Paper." These are reprints of articles appearing in the "Bureau of Standards Journal of Research" and the "Journal of Research of the National Bureau of Standards," the latter being the title of this periodical since July 1934 (volume 13, number 1).
- BH = "Building and Housing" publication.
- BMS = "Building Materials and Structures" publication.
- "C = "Circular."
- LC = "Letter Circular."
- R = "Simplified Practice Recommendation."

Circular C24 and supplements (a complete list of NBS publications) is sold by the Superintendent of Documents for \$1.30. Announcement of new Pureau públications is made each month in the Technical News Bulletin, obtainable by subscription, from the Superintendent of Dócuments, at \$1.00 a yéar in the United Statés, Canada, Cuba, Mexico, Newfoundland, and Republic of Panama, other countries at \$1.35.

	PART I - SCIENTIFIC PAPERS		
		Series	Price
Transmission and	absorption of sound by some ials. E. A. Eckhardt and V. L.	S	
Chrisler. Sci	. Pap. BS 21, 37(1926-27).	·s526	OP
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Transmission of s	sound through building materials.		
V. L. Chrisler	. Sci. Pap. BS 22. 227 (1927-28)	S552	ΟP

PART II - TECHNOLOGIC PAPERS	~	\
The effect of overfiring upon the structure of clays. A. V. Bléininger and E. T. Montgomery. Tech. Pap. BS 3, (1913).	Series F	Orice OP
Durability of stucco and plaster construction. R. J. Wig, J. C. Pearson and W. E. Emley. Tech. Pap. BS 7, (1916-17).	T 70	OP
Manufacture and properties of sand-lime brick. W. E. Emley. Tech. Pap. BS 2, (1916-17).	T85	OP
Compressive strength of large brick piers. J. C. Bragg. Tech. Pap. BS 11, (1918-19).	Tlll	OP
Tests of hollow building tiles. B. D. Hathcock and E. Skillman, Tech. Pap. BS 11, (1919).	T120	OP
Physical and chemical tests of the commercial marbles of the United States. D. W. Kessler. Tech. Pap. BS 12, (1919).	T123	OP .
Heat insulating properties of building materials. W. A. Hull. Tech. Pap. BS 12, (1919).	T130	OP
Measurement of plasticity of mortars and plasters. W. E. Emley. Tech. Pap. BS 13, (1919).	T169	OP
Fire tests of building columns. S. H. Ingberg, H. K. Griffin, W. C. Robinson, and R. E. Wilson Tech. Pap. BS 15, (1921).	T184	75¢
Tests of a hollow tile and concrete floor slab reinforced in two directions. W. A. Slater, A. Hagener, and G. P. Anthos. Tech. Pap. BS 16, 727 (1921-22).	T220	25¢
Loading tests of a hollow tile and reinforced concrete floor of Arlington Building, Washington, D. C. L. J. Larson and S. N. Petrenko. Tech. Pap. BS 17, 405 (1922-24).	T236	OP
Some compressive tests of hollow tile walls. H. L. Whittemore and B. D. Hathcock. Tech. Pap. BS 17, 513 (1922-24).	T238 ·	OP
Exposure tests on colorless waterproofing materials. D. W. Kessler. Tech Pap. BS 18, 1 (1924-25).	T248	OP

PART II - TECHNOLOGIC PAPERS (Continued		
Equalizer apparatus for transverse tests of bricks. H. L. Whittemore. Tech. Pap. BS 18, 107 (1924-25).	Series I	Price OP
Compressive strength of sand-lime brick walls. H. L. Whittemore and A. H. Stang. Tech. Pap. BS 19, 57 (1924-25).	Т276	OP
Tests of hollow tile and concrete slabs reinforced in one direction. D. E. Parsons and A. H. Stang. Tech. Pap. BS 19, 465 (1924-25).	T291 ,	OP
Permeability of stone. D. W. Kessler. Tech. Pap. BS 20, 155 (1925-26).	Т305 .	10¢
Durability of cement drain tile and concrete in alkali soils; fourth progress report (1923). G. M. Williams and I. Furlong. Tech. Pap. BS 20, 191 (1925-26).	Т307	OP
Cement-lime mortars (with bibliography). H. V. Johnson. Tech. Pap. BS 20, 241 (1925-26).	T308	OP
Compressive and transverse strength of hollow- tile walls. A. H. Stang, D. E. Parsons, and H. D. Foster. Tech. Pap. BS 20, 317 (1925-26)	. T311	15¢
A portable apparatus for transverse tests of brick. A. H. Stang. Tech. Pap. BS 21 347 (1925-26).	Т341	OP
Physical properties of the principal commercial limestones used for building construction in the United States. D. W. Kessler and W. H. Sligh. Tech. Pap. BS 21, 497 (1926-27)	Т349	OP
A study of problems relating to the maintenance of interior marble. D. W. Kessler. Tech. Pap. BS 21, 591 (1926-27).	T 350	OP
Strength of interlocking rib tile walls. A. H. Stang, D. E. Parsons, and A. B. McDaniel. Tech. Pap. BS 22, 389 (1927-28)	т366	OP
Cause and prevention of kiln and dry-house scum and of efflorescence on face-brick walls, L. A. Palmer. Tech. Pap. BS 22, 579 (1927-28).	Т370	OP

PART III - RESEARCH PAPERS		-
Studies of machines for extruding clay columns. Augers, spacers, and dies for brick machines. Paul C. Grunwell. BS J. Research 1, 1023 (1928).	Series RP36	Price OP
Fire resistance of hollow load-bearing wall tile. S. H. Ingberg and H. D. Foster. BS J. Research 2, 1 (1929).	RP37	OP
Transmission of sound through wall and floor structures. V. L. Chrisler and W. F. Snyder. BS J. Research 2, 541 (1929).	RP48	OP
The compressive and transverse strength of brick, J. W. McBurney. BS J. Research 2, 821 (1929).	RP59	OP
Some absorption properties of clay bricks. L. A. Palmer. BS J. Research 3, 105 (1929).	RPSS	OP
Compressive strength of clay brick walls. A. H. Stang, D. E. Parsons, and J. W. McBurney. BS J. Research 3, 507 (1929).	RP108	OP.
Tests of composite beams and slabs of hollow tile and concrete. D. E. Pársons and A. H. Stang. BS J. Research 4, 815 (1930).	RP181	15¢
Methods of measuring strains between glazes and ceramic bodies. H. G. Schurecht and G. R. Pole. BS J. Research 5, 97 (1930).	RP189	OP:
Moisture expansion of glazes and other ceramic finishes. H. G. Schurecht and G. R. Pole. BS J. Research 6, 457 (1931).	RP288	OP
Durability and strength of bond between mortar and brick. L. A. Palmer and J. V. Hall, Jr. BS J. Research 6, 473 (1931).	RP290	OP
Heat transfer through building walls. M. S. Ván Duzen and J. L. Finck. BS J. Research 6, 493 (1931).	RP291	·OP
Factors affecting the strength of masonry of hóllow units. D. E. Parsons. BS J. Research 6, 857 (1931).	RP310	OP
Volume changes in brick masonry materials. L. A. Palmer. BS J. Research 6, 1003 (1931).	RP321	OP

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PART III - RESEARCH PAPERS (Continued)	Conica	Datas
The physical properties of cast stone. J. Tucker, Jr., G. W. Walker, and J. A.	Series RP389	Price 5¢
Tests of integral and surface waterproofings for concreté. C. H. Jumper. BS J. Research, 7, 1147 (1931).	RP394	OP
Physical properties and weathering character- istics of slate. D. W. Kessles and W. H. Sligh. BS J. Research 2, 377 (1932).	RP477	OP
Shear tests of réinforced brick masonry beams. D. E. Parsons, A. H. Stang, and J. W. McBurney BS J. Research 9, 749 (1932).	* RP504	OP
Compressive strength of steel columns incased in brick walls. A. L. Harris, A. H. Stang, and J. W. McBurney. BS J. Research 10, 123	RP520	5¢
(1933). Fire tests of columns protected with gypsum. N. D. Mitchell. BS J. Research 10, 737 (1933).	_	5¢
Wear resistance of natural stone floorings. D. W. Kessler. BS J. Research 11, 635 (1933).	RP612	10¢
Wear of dies for extruding plastic clay. R. T. Stull. BS J. Research 12, 501 (1934).	RP 675	5 ¢
A study of the properties of mortars and bricks and their relation to bond. L. A. Palmer and D. A. Parsons. BS J. Research 12, 609 (1934).	RP683	OP
Investigation of commercial masonry cements. J. S. Rogérs and R. L. Blaine. J. Research NBS 13, 811 (1934).	RP746	OP
Experiments on exterior waterproofing materials for masonry. D. W. Kessler, J. Research NBS 14, 317 (1935).	. RP771	OP
Performance of a hollow-ware extrusion machine with different combinations of augers, spacers, and dies. P. V. Jehrson and R. T.		
Stull. J. Research MBS 14, 711 (1935).	RP798	5¢
Action of "hypo" solution on stone tanks. D. W. Kessler. J. Research NBS 16, 161 (1936).		OP
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PART III - RESEARCH PAPERS (Continued)	Contos	Daigo
Differences in limes as reflected in certain properties of masonry mortars. Lansing S. Wells, Dana L. Bishop, and David Watstein. J. Research NBS 17, 895 (1936).	Series RP952	Price 5¢
Compressive strength of structural tile masonry D. E. Parsons and David Watstein. J. Research NBS 18, 215 (1937).	n RP972	10¢
Accelerated weathering tests of mineral-surfaced asphalt shingles. H. R. Snoke and B. E. Gall J. Research NBS 19, 669 (1937).	up. RP1002	10¢
The wick test for efflorescence of building brick. J. W. McBurney and D. E. Parsons. J. Research NBS 19, No. 1, 105 (July 1937). Also Proc. A.S.T.M. 37, Pt. II, 332 (1937).	RP1015	5¢
Hydration of magnesia in dolomitic hydrated limes and puttles. L. S. Wells and K. Taylor. J. Research NBS 19, 215 (1937).	RP1022	OP
Strength, water absorption and resistance to freezing and thawing of sand-lime brick, J. W. McBurney and A. R. Eberle, J. Research NBS 20, 67 (1938).	RP1065	5¢
Relation between moisture content and flow-point pressure of plastic clay. R. T. Stull and P. V. Johnson. J. Research NBS 22, 329 (1939).	RP1186	OP
Properties of air-setting refractory-bonding mortars of the wet type. R. A. Heindl and W. L. Pendergast. J. Research NBS 23, 7 (1939).	RP1219	OP
Particle size and plasticity of lime. D. L. Bishop. J. Research NBS 23, 285 (1939).	RP1 232	OP
Physical, mineralogical and durability studies on the building and monumental granites of the U.S. D. W. Kessler, H. Insléy, and W. H. Sligh J. Research NBS 25, 161 (1940)	. RP1320	15¢
Length changes and endothermic and exothermic effects during heating of flint and aluminous clays, R. A. Héindle and L. E. Mong. J. Research NBS 23, (1939).	RP1243	~

	PART III - RESEARCH PAPERS (Continued)	a :	Destan
	A portable apparatus for determining the relative wear resistance of concrete floors. L. Schuman and J. Tucker, Jr. J. Research NBS 23, (1939).	Series RP1252	Price OP
	Application of vibrators for measuring mortar consistency and fabricating mortar cubes. R. L. Blaine and J. Tucker, Jr., J. Research NBS 24, (1940).	RP1273	10¢
	Some properties of the pore structure in bricks and their relation to frost action. R. T. Stull and P. V. Johnson. J. Research NBS 25, (1940).	RP1349	10¢
	Thermal expansion of clay building brick. C. W. Ross, J. Research NBS 27, (1941),	RP1414	10¢
	Some properties of the dry air-setting type of refractory bonding mortar. R. A. Heindl and W. L. Pendergast. J. Research NBS 28, (1942).	.RPI461	1 5¢
	Some properties of heat-setting refractory mortars, R. A. Heindl and W. L. Pendergast. J. Research NBS 30, (1943).	RP1534	5¢
	Function of carbon dioxide in producing efflorescence on plaster and cement products. D. L. Bishop. J. Research NBS 30, (1943).	RP1538	5 ø
	Ten-year tests of commercial masonry cements. R. L. Blaine, J. Research NBS 31, (1943)	.RP1548	5¢
	Thermal expansion of concrete aggregate materials W. H. Johnson and W. H. Parsons, J. Research NBS 32. (1944).	RP1578	10¢
	PART IV - CIRCULARS		
	Properties and manufacture of concrete building units.	C304	OP
X	Thermal Insulation of buildings	c376	5. ć
	Low cost glazes for structural clay products.	c436	10¢

PART V - LETTER CIRCULARS

(Free on application to Bureau)	eries
Publications by the National Bureau of Standards on sand-lime brick.	LC146
The fire resistance of brick walls - brick made of clay or shale.	LC228
The fire resistance of brick walls - walls made of concrete or sand-lime brick.	LC229
Policy of the National Bureau of Standards with regard to tests for agencies outside the Bureau.	LC544
Painting exterior walls of porous masonry.	LC747
Finishes for concrete floors.	LC758
The care of floors.	LC764
Thermal insulation of dwelling houses.	LC774
Acoustics publications by members of the staff of the National Bureau of Standards.	LC778
Dampness in basements and ground floors,	LCE13
Concrete and reinforced concrete: Publica- tions by members of the staff of the National Bureau of Standards together with a list of Federal Specifications.	LC838
List of published material relating to building regulations.	LC847
Cement: Publications by members of the staff of the National Bureau of Standards.	LC851
Fire resistance and fire prevention. Publications by the staff of the National Bureau of Standards.	LC862
Dampness in masonry walls above grade.	LC865
Detergents and detergent aids.	LC868
Sound absorption coefficients of the more common acoustic materials,	LC870

Series

PART V - LETTER CIRCULARS (Continued)

Enamels: Publications by members of the staff of the National Bureau of Standards together with a list of Federal Specifications.	LC873	
List of published material relating to home building and maintenance.	LC 908	
List of commercial standards, revised to Jan- uary 1, 1948.	LC890	
Publications relating to building codes and construction practice, home building—building materials, specifications—home maintenance.	LC891 ·	
List of Simplified Práctice Recommendations. Revised to April 1, 1948.	LC895_	
Standards and specifications for building and construction materials, fixtures, supplies and equipment.	LC896	
PART VI - BUILDING AND HOUSING		
Recommended minimum requirements for fire resistance in buildings. BH14 (1930).	вн14	Price OP
Care and repair of the home. BH15 (1931).	вн15	20¢
Recommended minimum requirements for small dwelling construction. BH18 (1932).	BH18	OP
Recommended minimum requirements for plumbing. (1932).	BH13	75¢
PART VII - BUILDING MATERIALS AND STRUCTURES		
Structural properties of six masonry wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1938).	BMS5	15¢
Structural properties of a "Tilecrete" floor construction sponsored by Tilecrete Floors, Inc., H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1939).	BMS16	10¢

PART VII - BUILDING MATERIALS AND STRUCTURES (Con	tinued) Series	Price
Sound insulation of wall and floor constructions	BMS17	35¢
Structural properties of a concrete-block cavity-wall construction sponsored by the National Concrete Masonry Association. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939).	BMS21	10¢
Structural properties of "Dun-Ti-Stone" Wall construction sponsored by the W. E. Dunn' Manufacturing Company. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939).	BMS22	10¢
Structural properties of a brick cavity-wall construction sponsored by the Brick Manu-factureres Association of New York, Inc. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939).	BMS23	10¢
Structural properties of a reinforced brick construction and a brick-tile cavity-wall construction sponsored by the Structural Clay Products Institute, H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1939).	BMS24	15¢
Structural properties of two brick-concrete- block wall constructions and a concrete-block wall construction sponsored by the National Concrete Masonry Association, H. L. Whitte- more, A. H. Stang, and D. E. Parsons. (1939).	EMS32	15¢
Plastic calking máterials. J. J. Tregoning, K. A. Milliken, A. Hockman, W. H. Sligh, and D. W. Kessler. (1940).	BMS33	15¢
Structural properties of two "Dunstone" wall constructions sponsored by the W. E. Dunn Manufacturing Co., H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS38	10¢
Structural properties of a wall construction of "Pfeifer Units" sponsored by the Wis-consin Units Company: H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS39	10¢
Effect of heating and cooling on the perme- ability of masonry walls. C. C. Fishburn and P. H. Petersen. (1940).	BMS41	OP

PART VII - BUILDING MATERIALS AND STRUCTURES (Continued)

	Series	Price
Structural properties of a masonry wall construction of "Munlock Dry Wall Brick." H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS53	10¢
Effect of wetting and drying on the permeability of masonry walls. C. C. Fishburn. (1940).	BM S 55	10¢
Strength, absroption, and resistance to lab- oratory freezing and thawing of building bricks produced in the United States. J. W. McBurney and J. C. Richmond. (1940).	BMS60	15¢
Structural properties of two non-reinforced monolithic concréte wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS61	10¢
Structural properties of a precast joist concrete floor construction sponsored by the Portland Cement Association, H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS62	10¢
Moisture condensation in building walls. H. W. Worley, (1940).	BMS63	15¢
Effect of outdoor exposure on the water perméability of masonry walls. C. C. Fishburn, D. E. Parsons, and P. H. Petersen. (1941).	BM 576	15¢
Structural heat-transfer, and water permeability properties of five earth-wall constructions. H. L. Whittemore, A. H. Stang, E. Hubbell, and R. S. Dill. (1942).	BMS 7 8	25¢
Water permeability of walls built of masonry units. C. C. Fishburn, (1942).	BMS82	25¢
Structural heat-transfer and water-permeability properties of "Speed-Brik" wall construction. M. H. Peck, V. B. Phelan, R. S. Dill, and P. H. Petersen. (1942).	BM S86	15¢
A method of developing specifications for build- ing construction. (Report of Sub-committee on Specifications, Central Housing Committee on Research, Design, and Construction.) (1942).	BMS <mark>87</mark>	15¢

PART VII - BUILDING MATERIALS AND STRUCTURES (Cont	inued)	
Water permeability and weathering resistance of stucco-faced gunite-faced, and "Knap Concrete-Unit" walls. C. C. Fishburn.	Series	Price
(1942).	BMS94	10¢
Tests of cement-water paints and other water- proofings for unit-masonry walls. C. C. Fishburn and D. E. Parsons. (1943).	BMS95	25¢
Properties of a porous concrete of coment and uniform-sized gravel. P. H. Petersen. (1943).	BMS96	10¢
Physical properties of terrazzo aggregates. D. W. Kessler, A. Hockman, and R. E. Anderson. (1943).	BMS98	15¢
Relative slipperiness of floor and deck sur- faces. P. A. Sigler. (1943).	BMS100	10¢
Strength and resistance of corrosion of ties for cavity walls. C. C. Fishburn. (1943).	BMSlOl	10¢
Measurement of heat losses from slab floors. R. S. Dill, W. C. Robinson, and H. E. Robinson. (1945).	BMS103	10¢
Paint manual with particular reference to Federal Specifications. P. H. Walker and E. F. Hickson (1945).	· BMS105	\$1.00
Laboratory observations of condensation in wall specimens. R. S. Dill and H. V. Cottony. (1946).	_ BMS106	OP
Building code requirements for new dwelling construction. (1946).	BMS107	20¢
Paints for exterior masonry walls. Clara Sentel. (1947).	BMS110	15¢
Strength of houses; application of engineering principles to structural design. H. L. Whittemore, J. B. Cotter, A. H. Stang, and V. B. Phelan. (1948).	BMS109	\$1.50
PART VIII - MISCELLANEOUS PUBLICATIO	NS	
American Standard building code requirements for masonry. (1944).	M174	15¢

PART IX - SIMPLIFIED PRACTICE RECOMMENDATI	ONS	
Vitrified paving brick	Series R1-40	Price 5¢
Metal lath. (Expanded and sheet)	R3-44	5¢
Brick, common; rough and smooth face	R7	5 ¢
Hollow building tile	R12	*
Structural slate (for plumbing and sanitary purposes)	R13-28	OP
Roofing slate	R14-28	*
Blackboard slate	R15-35	5 ¢
Concrete building units	R32-38	OP
Sand-lime brick	R38-37	5¢
Steel reinforcing spirals	R53-32	5¢
Clay tiles for floors and walls	R61-44	10¢
Clay sewer pipe and fittings	R211-45	10¢

*Available in mimeograph form only, free of charge

SS-B-691 5¢ Brick; sewer, clay

PART X - FEDERAL SPECIFICATIONS

The specifications listed below are issued by the Federal Specifications Board, Bureau of Federal Supply, Treasury Department, Washington 25, D.C. Copies may be secured from the Superintendent of Documents, Government Printing Office, Washington 25, D.C. at the prices indicated.

	- 0	ar one prices indicated
нн-м-611	5¢	Mortar: air-setting, refractory, bonding (wet and dry types)
HH-R-191	5¢	Refractories; fire-clay, plastic
QQ-B-71	5¢	Bars; reinforcement, (for) concrete
QQ-B-101	5¢	Bases, metal; (for) plaster and stucco construction
ss-B-656	5¢	Brick; building (common), clay
SS-B-663	5¢	Brick; concrete
SS-B-671	5¢.	Brick; paving
SS-B-681	5¢	Brick; sand-lime

PART X - FEDERAL SPECIFICATIONS (Continued)

SS-C-158 15¢ Cements, hydraulic; general specifications (methods for sampling, inspection, and testing) SS-C-161 5¢ Cement: Keene's SS-C-181 5¢ Cement; masonry SS-C-192 5¢ Cements; portland SS-C-621 Concrete-Units; masonry; hollow Lime; hydrated (for) structural purposes SS-L-351 SS-L-361 5¢ Lime; hydraulic, hydrated SS-P-351 5¢ Pipe; asbestos-cement SS-P-361 5¢ Pipe; clay, sewer. SS-P-371 5¢ Pipe; concrete; non-pressure, non-reinforced and reinforced SS-P-402 5¢ Plaster; gypsum : SS→P-431 5¢ Plaster-Board; gypsum 5¢ SS--Q-351' Quicklime; (for) structural purposes SS-S-284 5¢ Sheets (corrugated) and Shapes; cement-asbestos SS-S-291 5¢ Shingles; roofing, cement-asbestos SS-S-346 5¢ Siding: cement-asbestos SS-S-451 5¢ Slate; roofing SS-T-310 5¢ Tile, drain; clay SS-T-316 5¢ Tile; partition, gypsum SS-T-321 5¢ Tile; structural, clay, floor SS-T-341 Tile; structural, clay load-bearing, wall 5¢ SS-T-351 5¢ Tile; structural, clay, non-load-bearing SS-W-51 Wallboard, gypsum . 5¢

Compound, calking; plastic (for mesonry and other

TT-C-598

5¢

structures)

PART XI - OUTSIDE PUBLICATIONS ...

The articles listed below are not for distribution or sale by the Government, but may be consulted at most large libraries or in some cases may be purchased directly from the publishers.

- The Relation between the porosity and crushing strength of clay products. A. V. Bleininger. Trans. Am. Ceram. Soc. (American Ceramic Society, 2525 N. High St., Columbus, Ohio), 12, 564 (1910).
- Tests for sewer pipe. R. J. Wig. Proc. Am. Soc. Testing Matérials (American Sociéty for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.), 11, 854 (1911).
- The relation between the crushing strength and porosity of clay products. G. H. Brown. Trans. Am. Ceram. Soc., 14, 292 (1912).
- Use of the strain gage in the testing of materials. W. A. Slater and H. F. Moore. Proc. Am. Soc. Testing Materials, 13, 1019 (1913).
- Some comparative corrosion tests of plastered metal lath.

 J. C. Pearson. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Boulevard, Detroit, Mich.) 10, 445 (1914).
- Properties of cement-lime-sand mortars: W. E. Emley. Proc. Am. Soc. Testing Materials, 17, Part II, 261 (1917).
 - Tests of stucco. J. C. Perrson. Proc. Am. Concrete Inst., 14, 109 (1918).
- Compressive strength of cement-lime mortars. F. A. Kirkpatrick and W. B. Orange. J. Am. Ceramic Soc., 2, 44 (1919).
- New developments in surface treated concrete and stucco. J. C. Pearson and J. J. Earley. Proc. Am. Concrete Inst., 16, 70 (1920).
- Possibilities of terra cotta castings. R. F. Geller. J. Am. Ceram. Soc., 4, 883 (1921).
- Shrinkage of cement mortars and its importance in stuccó construction. J. C. Pearson. Proc. Am. Concrete Inst., 17, 133 (1921).
- Preliminary report of exposure tests on colorless waterproofing materials. D. W. Kesslér. J. Am. Inst. Architects (American Institute of Architects, 1741 New York Ave., N. W. Washington, D. C.
- Effectiveness of different methods of making absorption determinations as applied to hollow building tile. H. D. Foster. J. Am. Ceram. Soc., 5, 788 (1922).

PART XI - OUTSIDE PUBLICATIONS (Continued)

- Effect of grog additions on fire resistance of hollow tile. H. D. Foster: J. Am. Ceram. Soc., (American Ceramic Society, 2525 N. High St., Columbus, Ohio), 6, 748 (1923).
- Capping for compression specimens. H. D. Foster. J. Am. Ceram. Soc., 6, 623 (1923).
- Sulphur impregnated sandstone. D. W. Kessier. Stone (Stone Publishing Company, Inc., 353 Fifth Ave., New York, N. Y.), 44, (1923).
- Factors affecting brick masonry strength. S. H. Ingberg. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.), 24, Part II, 909 (1924).
- Stucco investigations of the Bureau of Standards. J. C. Pearson. Proc. of Building Officials Conference (Building Officials Conference of America, Inc., P. O. Box 231, West Hartford, Conn.) 10, 143 (1924).
- Strength absorption and freezing resistance of hollow building tile. H. D. Foster. J. Am. Ceram. Soc., 7, 189 (1924).
- Properties of gypsum tile: J. M. Porter. Proc. Am. Soc. Testing Materials, 24, Part II, 901 (1924).
- The fire resistance of gypsum partitions. 'S. H. Ingberg. Proc. Am. Soc. Testing Materials, 25, Part II, 299 (1925).
- Determining the weather resistance of stone. D. W. Kessler. Stone, 46, 351 (1925).
- Comments on the permeability of stone. D. W. Kessler. Stone, 46, July 1925.
- A study of practical problems for the marble industry. D. W. Kessler. Stone, 46, August 1925.
- Resistance of marble to various salt solutions. D. W. Kessler. Through the Ages (National Association of Marble Dealers, Cleveland, Ohio), 3, February 1926.
- Cleaning matérials for marble. D. W. Kessler. Through the Ages, 3, Part I, March 1926; Part II, April 1926; 4, Part III, June 1926; Part IV, August 1926.
- Steam cleaning a stone building H. H. Dutton. Am. Architect (Hearst Magazine, Inc., 572 Madison Ave., New York, N. Y.), June 20, 1926.

- Discussion of specification requirements for common brick. C. O. Christiansen. Am. Architect, 130, 23, (1926).
- Removal of stains from marble. D. W. Kessler. Through the Ages, 4, September 1926; Arch. and Bldg. (Architecture and Building, Wm. T. Comstock Co., 28 Warren Street, New York, N. Y.), Cctober 1926.
- Bases for specification and building code requirements for building bricks. S. H. İngberg. Proc. 23rd Annual Meeting of Sand-Lime Brick Assoc. (Saginaw, Mich.), 78 (1927).
- Removal of stains from marble. D. W. Kessler. Through the Ages, 4, January 1927.
- Development of steam cleming process. H. H. Dutton, Stone, 48, 225, April 1927, and 288, May 1927.
- Effect of workmanship on the strength of brick masonry. J. W. McBurney. Am. Architect, 132, 613, (1927).
- The strength of solid and of hollow walls of brick. A. H. Stang. Ceram. Age. (Ceramic Age, The Ceramic Publishing Co., 425 Parker Street, Newark, N. J.), 198 December 1927.
- Adhesion of plaster and stucco to hollow building tile. J. A. Murray and H. D. Foster. Am. Architect, 132, 839, (1927).
- Effect of strength of brick on comparative strength of brick masonry. J. W. McBurney. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.), 28, Fart II, 605 (1928).
- The development of an apparatus for wear tests on flooring materials. D. W. Kessler. Proc. Am. Soc. Testing Materials, 28, Part II, 855 (1928).
- Wet walls and efflorescence. L. A. Palmer, Am. Face Brick Assn. (American Face Brick Association, 205 W. Wacker Drive, Chicago, Illinois), (1925).
- Bond between concrete and hollow tile. J. C. Oleinik. Eng. and Contr. (Engineering and Contracting, Gillette Publishing Co., 401 W. Madison Street, Chicago, Illinois), 67 19 (1928).
- Strength of brick in tension. J. W. McBurney. J. Am. Ceram. Soc. (Américan Ceramic Society, 2525 N. High Street, Columbus, Ohio), II, 114 (1928).
- New Construction data on brick walls. A. H. Stang. Am. Contractor, July 30, 1928.
- The water absorption and penetrability of brick. J. W. McBurney. Proc. Am. Soc. Testing Materials, 29, Part II 711 (1929).

- Tests of elastic caulking compounds. H. H. Dutton. Proc. Am. Soc. Testing Materials, (American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.) 29, Part II, 954 (1929).
- The physical properties of commercial cast stone. J. Tucker, Jr. and G. W. Walker. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit 2, Mich.), 25, 501 (1929).
- The compressive and transverse strength of brick. J. W. McBurney. J. Am. Céram. Soc. (American Ceramic Society, 2525 N. High St., Columbus, Ohio) 12, 217 (1929); also BS J. Research 2, 821 (1929). RP59.
- Some results of freezing and thawing tests made with clay brick. L. A. Palmer and J. V. Hall. Proc. Am. Soc. Testing Materials, 30, Part II, 767 (1930).
- The resistance of stone to frost action. D. W. Kessler. Proc. New Inter. Assn. Testing Materials (New International Association for Testing Materials, Leonhardstrasse 27, Zurich, Switzerland), Group B, 37 (1930).
- Tests for weathering characteristics. D. W. Kessler. Rock Products (Tradepress Publishing Corp., 205 W. Wacker Drive, Chicago, Illinois), 33, (1930).
- The relation of Brinell hardness and transverse strength to the compressive strength of building brick. J. W. McBurney. J. Am. Ceram. Soc., 9, 823, (1930).
- Specifications for hollow masónry units. D. E. Parsons. Proc. Am. Soc. Testing Materials, 31, Part II, 595 (1931).
- The weathering of structural clay products: A review. J. W. McBurney. Proc. Am. Soc. Testing Materials, 31, Part II, 745 (1931).
- Weathering test procedures for stone. D. W. Kessler. Proc. Am. Soc. Testing Materials, 31, Part II, 799 (1931).
- Bibliography on weathering of natural stone. D. W. Kessler. Proc. Am. Soc. Testing Materials, 31, Part II, 804 (1931).
- Bibliography on the weathering of structural clay products. D. E. Parsons. Proc. Am. Soc. Testing Materials, 31, Part II, 825 (1931).
- Weathering of stone. D. W. Kessler. Am. Architect (Hearst Magazine, Inc., 572 Madison Ave., New York, N. Y.), 28, February 1931.
- Water penetration through brick-mortar assemblages. L. A. Palmer. J. Clay Products Inst. (Clay Products Institute of America)
 1, 19, Spetember 1931.

- The use of clay products in sound insulation. V. L. Chrisler.
 J. Clay Products Inst. (Clay Products Institute of America)
 1, 31, September 1931.
- Volume changes in brick masonry materials. L. A. Palmer. J. Am. Ceram. Soc. (American Ceramic Society, 2525 N. High Street, Columbus, Ohio), 14, 541, (1931); also BS J. Research 6 1003 (1931) RP321.
- The physical properties of cast stone. J. Tucker, Jr., G. W. Walker, and J. A. Swenson. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit, Mich.), 28 243 (1931); also BS J. Research 7, 1067 (1931) RP389.
- The transmission of water through brick masonry. L. A. Palmer. Architectural Forum (521 Fifth Avenue, New York, N. Y.), 56, 103, (1932).
- The color range of common brick. J. W. McBurney. J. Clay Products Inst., 1, 31, June 1932.
- The rate of stiffening of mortars on a porous base, L. A. Palmer and D. A. Parsons. Rock Products (Tradépress Publishing Corp. 205 W. Wacker Drive, Chicago, Illinois), 35, 18, (1932).
- Discussion of "Development in reinforced brick masonry." J. W. McBurney. Proc. Am. Soc. Civil Engine. (American Society of Civil Engineers, 33 W. 39th Street, New York, N. Y.), 59, 1344, (1933).
- The strength, water absorption, and weather resistance of building bricks produced in the United States. J. W. McBurney'
 and C. E. Lovewell. Proc. Am. Soc. Testing Materials, 33,
 Part II, 636 (1933).
- Permeability tests of 8 inch Wallettes. L. A. Palmer and D. A. Parsons. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.) 34, Part II, 419 (1934).
- Size and weight of building brick produced in the United States.
 J. W. McBurney. Industrial Standardization 10, (Jan. 1935).
 - Comparison of natural weathering with laboratory tests of clay brick. D. E. Parsons. 'Proc. Am. Soc. Testing Materials, 35, Part I, Appendix II, 252 (1935).
 - The relation of freezing and thawing resistance to physical properties of clay and shale building brick. J. W. McBurney. Proc. Am. Soc. Testing Materials, 35, Part 1, Appendix I, 247 (1935).
- A test procedure for plastic caulking materials. D. W. Kessler. Proc. Am. Soc. Testing Materials, 35, Part II, 581 (1935).

- Water absorption of building brick. J. W. McBurney. Proc. Am. Soc. Testing Matérials (American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.,) 36, Part 1, 260 (1936).
- Transverse and compressive strength of bricks. J. W. McBurney. Proc. International Assn. Testing Materials, London Congress, 388 (April 19-24, 1937).
- Locating the causes of rain penetration of brick walls. D. E. Parsons. Building Economy and Modern Builder (2121 Guarantee Title Bldg., Cleveland, Ohio), 12, 5 (1937).
- The wick test for efflorescence of building brick. J. W. McBurney and D. E. Parsons. Proc. Am. Soc. Testing Materials, 37, Part II, 332 (1937). Also J. Research NBS 19, No. 1, 105, (1937). RP1015.
- Brick laying to avoid leaks. 'D. E. Parsons.' Am. Builder (105 West Adams Street, Chicago, Illinois), 59, 76 (1937).
- A further study of the water penetrability of clay and shale building brick. J. W. McBurnéy and A. R. Eberle. J. Am. Ceram. Soc. (2525 N. High St., Columbus, Ohio), 17, No. 5, 210 (1938).
- The freezing and thawing test for building brick. J. W. McBurney and A. R. Eberle. Proc. Am. Soc. Testing Materials, 38, Part II, 470 (1938).
- Comparison of standard tests on building brick by two laboratories. W. J. Krefeld and J. W. McBurney. Bul. A.S.T.M. No. 96, 7 (1939).
- Plastic calking materials. D. W. Kessler. Review of Society of Residential Appraisers, (333 N. Michigan Ave., Chicago, Ill.) 5, no. 2, (1939).
- Watertightness and transverse strength of masonry walls. D. E. Parsons. (Reprint of address delivered at Annual Meeting of Structural Clay Prodúcts Institúte, 1756 K Street, NW., Washington 6, D. C.), October 5, 1939.
- An apparatus for determining Young's modulus of building materials by the dynamic method. F. B. Hornibrook. Bul. A.S.T.M. December 1939.
- Exterior paint investigation for masonry wall structures. Clara Sentel. National Paint Bulletin (Franconia, Alexandria, Va.) 4, no. 5, 10 (May 1940).
- Relation of water absroption and strength of brick to abrasive resistance. J. W. McBurney, R. H. Brink, and A. R. Eberle. Proc. Am. Soc. for Testing Materials, 40, (1940).

- Watertight masonry walls. C. C. Fishburn. Operative Builder and Contractor (919 N. Michigan Ave., Chicago, Ill.) no. 5, 26 (Sept. 1940).
- Effect of water content and mixing time on properties of airsetting refractory mortars containing sodium silicate. R. A. Heindl and W. L. Péndergast. Bul. Am. Ceramic Soc. (2525 N. High St., Columbus, Ohio), 19, 430 (Nov. 1940).
- Outdoor exposure test of paints for masonry walls. Clara Sentel. Circular No. 609, Natl. Paint, Varnish and Lacquer Assn. (1500 Rhode Island Ave., N.W., Washington, D. C. (Jan. 1941).
- Statistical theory of the effect of dimension and of method of loading upon the modulus of rubture of beams. John Tucker, Jr., Proc. Am. Soc. Test. Materials (American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.), 41, 1 (1941).
- Effect of freezing and thawing temperature in freezing-and-thawing tests of brick. J. C. Richmond and J. W. McBurney. Proc. Am. Soc. Testing Materials, 41, 62 (1941).
- Saturation coefficient values for brick by the absorption-boiling and the absorption-porosity methods. R. T. Stull and P. V. Johnson. Bul. Am. Soc. for Testing Materials, No. 109, 17, (March 1941).
- Relation between air and water permeabilities of building brick. R. T. Stull and P. V. Johnson. J. Am. Ceram. Soc. 20, 443, (Dec. 1941).
- Relations between results of laboratory freezing and thawing and several physical properties of certain soft-mud bricks. J. W. McBurney. Proc. Am. Soc. for Testing Materials, 42, 837 (1942).
- An improved gas-expansion volumenometer. J. C. Richmond, J. B. Petersen and W. H. Herschel. J. Am. Ceram. Soc., 26 127 (1943).
- Discussion of "Measurement of bond between bricks and mortar". J. W. McBurney. Proc. Am. Soc. Testing Materials 43, 867, (1943).
- Applying membrane waterproofing to plain concrete well footings.

 J. DiStasio and C. C. Fishburn. J. Am Concrete Inst. (American Concrete Institute, 7400 Second Blvd, Detroit 2, Mich.) 15, 323 (Feb. 1944).
- The effect of certain variations in consistency and curing conditions on the compressive strengths of cement-limé mortars.
 G. J. Fink. Proc. Am. Soc. Testing Materials 44, 780 (1944).
- Factors affecting the thermal expansion of concrete aggregate materials. W. H. Parsons and W. H. Johnson. J. Am. Concrete Inst., 15 457 (1944).

- Properties of highly hydrated dolomitic masonry limes and certain of their cement-lime mortars. G. J. Fink and E. Trattner. Proc. Am. Soc. Testing Materials, (American Society for Testing Materials, 1916 Face Street, Philadelphia 3, Pa.,) 45, 723 (1945).
- Permeability of brick-mortar assemblages. J. W. McBurney, M. A. Copéland and R. C. Brink. Prcc. Am. Soc. Testing Materials, 46, 1333 (1946).
- Properties of Masonry Mortars of Several Compositions. David Watstein and N. A. Seese, Jr., Bul. Am. Soc. Testing Materials, No. 147, 77 (August 1947).
- Prevention of Dampness in Basements. C. C. Fishburn. J. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit 2, Mich.), 19 (6) 421, February 1948.

